



MISSOURI BOTANICAL GARDEN

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GEORGE ENGELMANN BOTANICAL NOTEBOOKS

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Mycales Alaskensis

~~Hymenomycetaceae~~

~~1. Tremella? phyllachorae Tass. n. sp.~~

~~Erumpehi-adrata, epiphylla, applanato-pulchra, ambitu suborbiculari v. oblonga, 2-4 mm. diam., 0,7-1 mm. crass., ada exquiste gelatiosa ^{superfice} nigra, opaca, ^{superficie} minime rugosa, inbas pallidior tota filamentosa; filamentis seu hyphis angustissime pliformibus, 1,5-2 μ cr., longissimis, rane intricatis, furatis v. varie ramosis, hyaliniis intus granulatis, apicibus subtruncatis, basi applanatis, obtusis; basidiis sporis~~

~~Hab. in foliis Dejectis putrescentibus Mengestiae-ferreae, Sitcha ^{Westen} - Uidetum affinis Tr. aho-virens Fr.; dubi tamen quia sterilis.~~

~~Ustilaginaceae~~

~~2. Tuburaria Trientalis Berk. et Br. statu cons.
Nopkrus: Dentaria Trientalis Berk. (sub Acromy-
cetes nomine) - Syst. fung. VII p. 507. De
Bary und Voronin. Bertr. Morph. und Physiol.
der Pilze. II, tab. I (eximie!)~~

~~Hab. in foliis viri Trientalis
Unalaska et Kadiak~~

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Pyrenomyctaceae

IX *Microthyrium Harrimani* Fae. n. sp. Tab I f. 1

Perithecia densascula gregaris ~~adpresso~~, superficia
 libis, dimidiatis, orbiculis applanatis, orthocauli-
 bus, 350-450 μ diam., subrade frustato-
 approximatis, orthoculo centrali persistis, margine
 fimbriatis, contexta distincte parenchymatice,
 radiata; ~~areis~~ areis reticulatae, ariangae obtri-
 subis 80-100 \times 9-10, oclosporis; paraphys-
 bus parvis, lape furcatis; sporiis 2-3.5 \times 1.5-
 2.5 μ , levigatae fusiformibus, ariangae acutiusculis,
 in permedium 1-septatis, non constrictis, hyaliniis.
Hab. in specimen *Strobilorum subemarginatum*
Tsuga heterophyllae Dca Prince William
 Sound (739 760) - affine *Microthyrio*
abietis Mout. (Syl. IX p. 1058)

Ditromycetidae

4 *Cudonia circinans* (Pers.) Fr. - Lyl. fung VIII, p. 50.

Hab. ad fragmenta lignae in Alaskais Dca
 Prince William Sound (696)

5 *Lachnea sartellata* (Linn.) Gill. - Lyl. VIII, p. 17?

Hab. ad ligna et corticem dejectam, putres, Juneau
 (690-690 a.b.c.) Yakutat Bay

6 *Ciboriae* spp. N. 686 (in *Tsuga*) modis aff.

+ nisi *Ciboriae struthiae* (A. S.) Sacc. - N.

702 ^(in ramentis ibidem) ~~aliam~~ ad *Ciboria rufo-fusca* (Web.) Van.
 Sunt tamen exemplaria unica, non perfecta
 hinc determinatio dubia.



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7. Phiales carnea Sau. sp. n. (in sicc.)
X Sparsa, minuta, ubique carnea, glabra; capula
initio minuta subglobosa, dein ampliata subhemis-
pheric^{v. obconica}, 0,7-1 mm. diam.; stipite cylindraceo sub-
tibi, 1-1,3 mm. longo, lente striatulo basi
vix incrassata asperulo; disco lev^{concavo}, roses marginae
extimo pallidore; asci tereti-clavatis, deorsum
tenuata stipitatis, 80-90=7, ocliosporis; paraphys-
ibus pl. formi bacillaribus; spordis. disidios. teresi-
oblongis, attingue obtusatis, rectiusculis, 11-14=
3-3,5, intus granulatis, hyalinis.

Hab. in foliis stipitatis dejectis putrescentibus
ad Agua Dulce River, Yakutat Bay (n. 595)
- affinis Ph. alba, gastroidea et Broomei
- vel colore v. proportione partium satis diversa.

8. Helotium Alaskae Sau. sp. n.
gregarium, minutum, ubique (in sicc.) oroceo-gauenum,
glabrum; capula initio punctiforme-punctata, dein am-
pliata planosutellata, brevem marginata, vix 1 mm.
lata; stipite cylindraceo crassiusculo, terete 1 mm alto
1,3 mm. cr., lev. dilatatus colorato; asci tereti-
clavatis, apice obtusis, deorsum tenuato-stipitatis,
60=5,5-6, ocliosporis; paraphysibus copiis
bacillaribus; spordis cylindraceo-fusoides, lente
curvis, 8-11=2-2,7, disidios, hyalinis.

Hab. in ligno putrescente decorticato, Agua Dulce
River, Yakutat Bay (n. 595) - ab affinis
specie^s flavis lignicolis stipitatis spordiorum
notis latius diversum.

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9 Helodium fumigatum Lec. et sp. - lyl. VIII p. 235.
Hab. in caulis herbarum putridis Yakutat
 Bay (n. 731) adest sois Botrytis vulgaris.

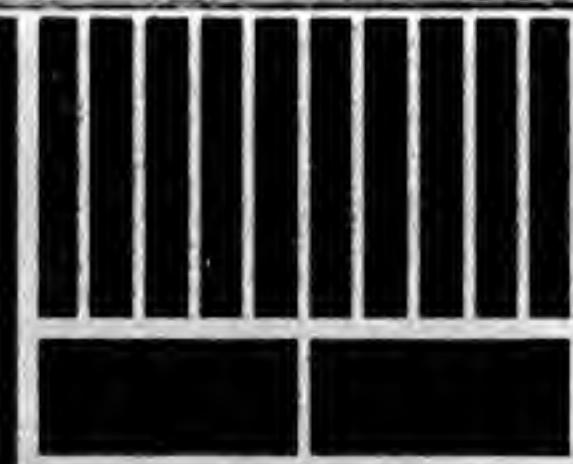
10 Helodium tenuiculare (Bull.) Fr. - lyl. VIII p. 225.
Hab. in lignis putridis, Jancau (n. 692)

11 Trichopezza earolema (B. et Br.) Sacc. lyl. VIII
 p. 409.

Hab. in caulis putrescentibus Lupini Disru
 Kamtsch. Bay (n. 732 a) Ebsi Specie
 Berkleyana sit brevitime descripta et ex
 insula Ceylon, tamen nostre videntur exdem. Aco-
 mata areolata, minutissima, rosea, niveo-ochroa.
 Pilis rigidis, cuspitatis, 200-250 = 7-8, continuo.
 Asc. fusoides $40-50 = 5-5,5$, octospori. Paraphyses
 aequalares ^{asc. paucis longiores} et sporis allantoidea $5-6 = 1,5-2$,
 hyalina.

12 Pirottaea Yakutatiana Lec. sp. n.
 + Acomata in areolatis, areolatis, basi contracta
 super-patulis, majusculis, ^{extus setulosis} levis nigra, 1 mm.
 latis et altis, disco (madre tantum conspicuo)
 concava cinereo-caerulea; excipuli contextus rigidus,
 aco-fusoides ad marginem pallidiorum pilis
 pluiformibus, pallide fuliginea, septatis, 60-70 = 5,
 in fimbriis subtriangularibus, rarae coalescentibus;
 asci serice-fusoides, utriusque oblongi-ovalis,
 $40-45 = 5,5-6$, octospori; paraphyses
 lanceolatis, crassis, discos superantibus; spori-
 dis oblique monostichis, fusoides, recti,
 $9 = 2-2,5$, hyalini.

Hab. in rami depositi iaduatis decorticatis,
 Yakutat Bay (n. 736) - a P. gallica mox
 necepit quis quadruplicem major, basi coarctata, pilis
 fimbriato-fusculatis.



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13 Pseudopeltigera Cerastiorum (Waller.) Fuck. - Lyt. fung. VIII, p. 725 - Var Arenariae. a typ. diff. sp. sporidij paullo majoribus, nempe $16 = 4-4.5$. Hab. in foliis emortis Arenariae (ateriflorae) Kaukaan Gol. Trunston (#18 #19)

14 Pseudopeltigera (Pseudorhizina) Bistortae (Lb.) Fuck. + Lyt. fung. VIII, p. 723, XI p. 432. Hab. in foliis Polygoni vivipari, Unalaska (n. 1752 T. V. Coville et T. H. Kearney) - (n. 765, Trelease).

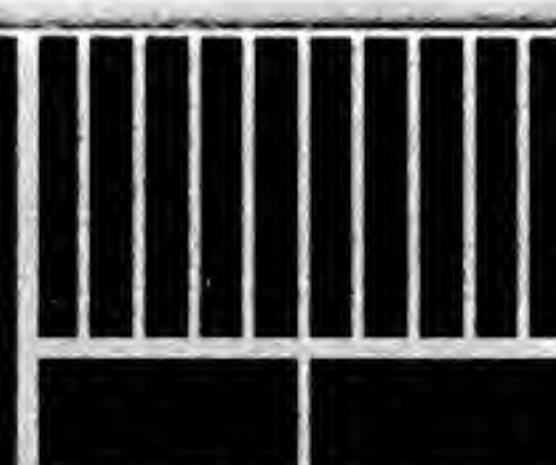
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15 Scleroterris Treleasei Sacc. sp. n.

Dense gregaria ^{U.} ^{punctiformi} hinc inde capitulata, e basi pinnata, brachio superparali, bicolor; arachnibus initio areolatis, clausis, mox laciniatis - dehinc rufis, majusculis, 2,5-3 mm. diam. scutellatis, extus marginaque laero aterrimis, carbonaceis, rugosis, disco plano-concavo levitudo tabellina-carnosa, ceracea; areolae clavatis, apice ^{acutatis} oblique, deorum tenuato-punctatis, 140-12-14, orbiculari, paraphysis piliformibus, apice inter ^{lacinias} furatisque totis hyalinis; sporidij ^{polyporum} ~~polyporum~~ ^{lacinias} in areis parte super. fasciculatis, cylindrica ex clavatis, deorum acutatis, ⁵⁰ ₆₀ = 2, constrictis, hyalinis, iuxta dura curvatis.

Hab. in corticibus nonnullis emortis Coniferarum cujusdam Sitka Baranoff Island (n. 693, Kincaid) et (n. 845, Trelease). Eximus fungus, quem mirum Neckera mycetogena obseruavisse. Affectus non parum dubius hinc Clithrem, illic Coccophacidium mutans et tunc forte non generis typus. A Scleroterris sporidij, contextus et paraphysum ^{ha} ^{lura} ~~parasitum~~ differunt. Othuraeum ascorum jodi opere non tingeatur. Contextus exculpato indistincte cellulosis, subcarbonaceus, fuscus. Ascocoma, cum recedunt, areolam albam in cortice matrix relinquunt.

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+ Peltiella Aloysii-Sabaudiae Sau. sp. n. (1) orbicularis.
Ascomata gregarij, majuscule, plano-peltatij, stellibus, matrici adpressis sed omnia superficiatis, punctis centrali adpresso, usque 2 mm. diam. subigneis, opacis, margine attenuato non prominente, disco minutissime granuloso; asci cylindrici, apice rotundati, basi acutatij breve stipitatis, 8h-90 = 10-11, octospori; pare-physibus stipitis bacillari-clavatis sursum atratis conidagine perfecte globosa atropul-
ginea, 11-12 μ diam. excurrentibus; poroidis oblique monostichis o. subdistichis, ovato-oblongis rectis curvatis, 1h-15 = 5,5-6, hyalini.

Hab. in caulinis putrescentibus, atratis, Aqua Dulce River Yakutat Bay (n. 689 Trelease)

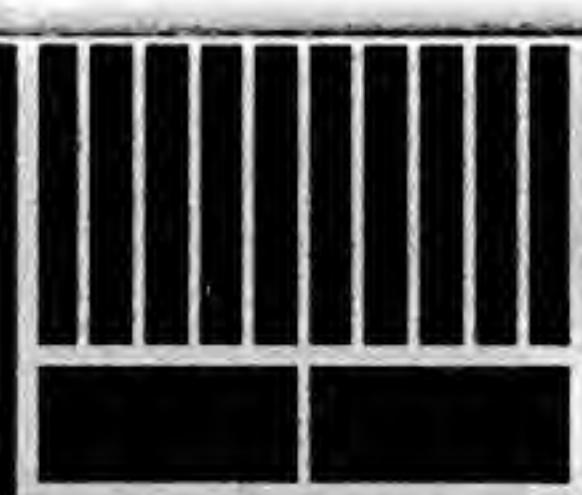
N. 730, in caule Veratris, Dile. Prince William Sound, Trelease) indet. idem fungus junior. Eximia species, ob paraphyses conide nigra atra gerentes praedita. Discoph. margo cellulari, tereti-clavatus, 20-25 = 1, truncis ^{liberis} solitariis praeditus est.

+ Heterophaea. Peltella (Tode) Grev. - Symb. fung. VIII, p. 175.

Hab. in caule emortuus Heraclei (?) Alaska

Evans (#115).

(1) Dixi in honorem Aloysii Sabaudiae, Apratiorum duci, qui anno 1897 summa cæcumina M^u S. Elias Alaskæ primus concordit.



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Deuteromycetaceae

18 Poromema stroblium Desm. - Syll. fung. III, p. 678,
✓ x p. 635.

Hab. in squamis strobliorum Abietis canadensis
(# 2) Alaska Kellogg; Tsuga Mertensiana
Ova Prince William Sound (n. 741 Trelease);
et Picea sitchensis Ova P. W. Sound, Trelease
(n. 742)

19 Botrytis vulgaris Fr. - Syll. IV p. 128.

Hab. in foliis putridis, adi, Lonicerae involu-
cratae, Cape Fox (n. 706); in caulis putri-
di Yacutat Bay (n. 973)

20 Ramularia cerasi Dc. et E. - Syll. fung. XIV

✓ p. 1060

Hab. in foliis Epilobii gracilis, Kadak Island
(n. 766-767)

21 Ramularia punchiformis Lau. sp. n.

✓ Maculis epiphyllis, brunneis, non marginatis,
ovato-oblongis, deinde ampliatis; capillis
in his maculis dense fibriginis, compactibus,
punctiformibus, albis, epiphyllis; hyphis e
nodato stromatico cellulari pelliido obscuris, fasci-
culatis, cylindraceis, sursum attenuatis, rix dark-
colatis, hyalinis, 25-30 = 2-3; conidiis fusoi-
deis, rectiusculis, akingue obtusulis, 16-18 x
2-3, hyalinis.

Hab. in foliis subcordatis Potentilla austriaca
Yacutat Bay (n. 956). A Ram. austriaca
(capillis epiphyllis, vere punctiformibus etc
distinguenda).

22 Strobilomyces graminis Fuck. - Syll. fung. IV, p. 348.

✓ Hab. in foliis graminum nonum emarginatum, St
Paul Island (n. 780, Trelease)



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23 Antennaria rectangularis Lax sp. n.

+

Capitulosa v. effusa, superficialis, atra-fuliginea, taxe intricata, hyphis anastomosis, tornofis, v. subrectis, lagistomis ^{platiformibus} 1,5-2 mm. long., 12'-15' p. or. ^{parce ramosis, multi articulatis} articulis 22-28'-12-15' ad septa non v. luteo-constrictis, luteo-^{l-guttatis}; rami simplicibus, sub alterius angulo perfecte recto patentibus, 70-80, raro usque 100' p. longi, apicibus acutis acutis v. obtusis; peritheicii

Hab. ad rami foliis Bryanthi glanduliflori Tilke (H. 1597) - Certe affinis Antennariae Robinsoni B. et M., differt tamen hyphis omnibus aspectibus, nec partim tornofis, rami angulo ^{perfecte} recto orientis, etc.

+

24 Spira minor Sacc. Syst. fung. IV p. 515.

Hab. in rami emortuis socia Cyphella sp. in - matura, Agua Dulce River (n. 684)

+

25 Fusarium illosporioides Sacc. sp. n. ^{depresso}

Sporodochis gregaris, ex umido superficialibus pulvinatis, 0,5-1 mm. diam. taxe contextis, superficie subvelutinis, pluviatim roseis; hyphis fasciculato-intricatis, porophoris variegatis modo 11m pliatis, modo fuscatis, interdum oppositi-ramosij, usque 50-70 = 5, parce leptatis; conidiis fuscis, saepe rectis, raro curvatis atque acutis acutis (junctioribus obtusis) 1-2- typice vero 3-leptatis, ad septa non constrictis, 20-22-24-5.

Hab. in rami ^{coriaceis} putrescentibus Ribig, Satica Baranoff Island (n. 728) - Habitu et porophoris fore illosporioides species distinguenda videbar.

Mycelia sterika

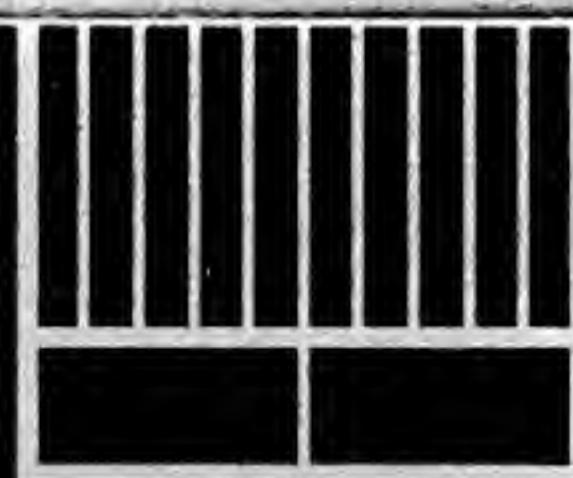
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26 Sclerotium varium Pers. - Syst. XIV, p. 1166.

Hab. in caule patrenke Heraclei, Kadiak (n. 737 a)

27 Sclerotium durum Pers. - Syst. XIV p. 1165.

Hab. in caule patre Veratri, Ale Will. Island (n. 730 ex parte)



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Myces Alaskenses

Thelephoraceae

Exobasidium Vaccini (Stack.) Wor. - 2 foliis vis Vaccini (ovatifoli?)
Orc (717), 716, 718 (65) 1639 Vaccini Oryzacea Saldinia (714)

Mediaceae

X Aecidium Claytonianum (Schw.) Clark. - 2 foliis Claytonia arctica
St Paul (Bibliop. 710) (664)

X Aecidium arcticum Link. forma Aconiti delphinifoli - 2 ejus
foliis vis, St Paul M. Bering sea (n. 661)

Urticaceae

X Urtigo Bistortarum J. DC. / Körn. - 2 foliis Polygonum propinquum
Port Willy (n. 764)

Phaeomycetidae

X Peronospora Ficariae Tst. - 2 foliis Ranunculi e. gregae R. montana
(n. 743 ex n.) Glacier Bay, Comilla

X Physoderma Menyanthidis Debary - 2 foliis Menyanthis lifoliae,
Kuuk Bay Alaska (Saunders) n. 769.

✓ Eurotium herbariorum ^{Periphloea} - 2 foliis male exsicc. Gieck. Yes Bay (1618)
otto ^{Vide ad finem} Sphaeriaceae

X Physalospora Crepiniana Sau. et March. - 2 foliis Empetri nigri
(1598); Alaska [Hampton 1881-92]

X Physalospora borealis Sau. sp. n. - Peritheia late gregarious, subunter-
nei, dem erumpentibus, globulosi, papillati, nigri, 0,3-0,5
mm. diam., contexta parv. hymenio, duriscula, fuliginea; asci cylindri-
ci, basi tenui, breviter meae Thigmata, apice obtusis, 70-75=56
octospori; paraphyses parv, brevibus; spordia oblique monosporae,
oblongo-ovoides, levissime inaequilateris, 9-10=4,5, unius
obtusis, iatis granulatis, hyalinis.

Hab. in caulinis emarginatis, putoeranthos Onomones sp. Kukak
Bay, iulio 1899 (S.) Socie adest Stagonospora Peltariae.



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~~X~~ *Laetaria saxifragae* Sauv. et Sc. sp. n. - Peritheciis epiphyllis, pruiniformibus, in partibus marginibus arecentibus foliorum sparsis, globosis, 100-130 μ diam., pura perhusis, contorta parenchymatis fasciis; asci cylindraceis & cylindraceo-clavatis, brevissime stipitatis, apice rotundatis, 60-80 = 10-13, aperature rotundata, oclosporis; sporiis distichis oblongo-elliptoideis, utriusque acutulis, 10-13 = 6,5-5,5, continuis, hyaliniis.

Hab. in foliis nonnum emortuis *Saxifragae peruviana*, Uralaska, herb. Bernhard. (s. n.) - Plumbus effusis, sed vido cur ratis distincta. Asci tantum a basi peritheciis oriund. Gnomonella tubiformis (Tode) Sauv. in foliis *Alni viridis*, Port Wells (710)

~~X~~ *Hypoxylon majusculum* Cooke - In cortice emortuis *Alni sitkensis*, Ague Duke River (4. 786) - Sporula 16-16 = 5,5-6.

~~X~~ *Hypoxylon olivaceum* B. & B. - In trunci *Piceae*, Sitka - Asci clavati tenuiter stipitatis 68-80 = 8, sporiis oblique monosticha oblongo-elliptoideis 5,5-7,5 = 2,5-3,5, fuligineis; stroma 2-6 cm. longa et lata, perith. 1,5-1,7 mm. longa.

~~X~~ *Sphacelula adusta* Tack. - In foliis *Epilobii borealis* Uralaska (2189), et *Epilobii* sp. Yakutat (620) et *Epilobii* Bonyard. Yakutat (4475)

~~X~~ *Sphacelula pachysca* Rost. - In foliis emortuis *Strobila alpinae* Pr. - Borrow for. 70° (15686)

~~X~~ *Sphacelula Rumicis* (Desm.) Cooke - In foliis *Rumicis occidentalis*, Juneau (776), Kadiac (771)

~~X~~ *Sphacelula oothecae* Sauv. - In foliis *Dryadis octopetala* Nagel Hornigton 1821-72 - Verisimiliter *Sph. Octopetala* Ord. non ratus differt.

~~X~~ *Sphacelula Stellarinorum* (Rabenh.) Krest. - In foliis vetustis *Alnus longipedis* (Lata (Richard)) Russell Fiord (1987a)

~~X~~ *Sphacelula Grossulariae* (Fr.) Gord. *S. Salicella* Sauv. et Sc. Peritheciis

~~X~~ *Sphacelula hastensij* Avera - In foliis nonnum emortuis *Betula gleniloreae*, Port Clarence Alaska (699) sive *Dothidella betulina*.



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~~X~~ *Leptosporaria Dolbolum* (Pers.) De Not. — λ canthig emortuus Hera-
lei, Kadak, locis photographicis abdito (737)

~~X~~ *Leptosporaria fasciculacea* H. Tab. * *L. lupina* Sacc. et Sc. subsp. n.
Peritheciis globoso-depressis, dialectis, deinceps undatus, sporis v. sub-
gregariis, minutissimis ^{globulis} 350-620 μ diam, ^{globis} nigris; contextu
parenchymatiko, fuligineo; asciis large clavatis, stipitatis, 100-200-13,5
-15,5, octosporis, paraphysibus pliformibus septulatis obvallatis;
sporidij subdestrictis, fusiformibus, 3-6-septatis, non constrictis,
lape inaequibus v. curvatis, dilute olivaceis.

Hab. in canthig putrescente Lupini Dierechartinear Bay, locis
Phormae pene (732)

~~X~~ *Leptosporaria agnita* (Desm.) De Not. et C. * *L. labens* (A. Gray) Sacc. et Sc. subsp. n.
Differt peritheciis a. macula florida paullo majoribus (0,5 mm. diam.)
fusca eolebentibus, sporidij non diversis — λ canthig herbarum
emortuus, Alaska (731)

~~X~~ *Leptosporaria Silenes-acantis* De Not. — λ petiolis et foliis
emortuus Silenes acantis, Alaska, Harrington 1871-72

~~X~~ *Leptosporaria marginata* Pischel — λ maculis atque epiphyllis, rariis
hypophyllis foliis Pirolae secundae Yakutat Bay (1877) Lunetum

~~X~~ *Leptosporaria juncicola* Rehm — λ calamus Scirpi cespitosi,
Shamagin Is. Harrington 1871-72

~~X~~ *Leptosporaria Ophiopogonis* Sacc. * *L. graminina* Sacc. — λ foliis
emortuus Ophiopogon nubae Fox Bay, Howell (1872)

~~X~~ *Leptosporaria Leptiana* Sacc. — λ foliis Agrostidis on Bluff
mouth of Yer Bay, Howell (1871) loca Pharella californica.

~~X~~ *Sporormia antijua* Nieserl — λ strobile (Harmjan?), Kadak
(707)

~~X~~ *Metaphorbia Empetri* (Fr. p.p.) Sacc. — λ foliis Empetri nigri
Port Clarence, Alaska (700). Specimina non omnino matura.



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Pseudovalva nivaria Sau. et Scal. sp. nov. — Stromatibus corticolis
leptis, deni erumpentibus, nigris, e peritheciis 4-6 connatis
compositis, ex 1 mm. diam. diam., ostiolis obtusulis, breviter emergentibus,
aerei cylindraceis, breviter abrupte stipitatis, apice late rotundatis,
 $110-130 \pm 26-26$, filiformi-paraphysatis, octosporis; peritheciis
distichis, oblongo-fusoides, primis hyalinis, dyminis, strato mucoso hyalino obductis,
deni 3-septatis, medio parum constrictis, $38-41 \pm 16-20$, fasciatis.
Hab. in rami corticatis arborum Ribis taxiflori, Sitka
sicut Rhyzophragma, Gordonia et (1709)

Neopora herbarum (Pers.) Rabenh. — In foliis putrescentibus Ra-
nunculi nivales Murdock Pr. Banon (n. 15682) et in foliis
putridis Degeneridij arvensis archaeae Nagari T. Amington 1871-72
Prima est forma macrospora (Ip. 44-54 = 20-23), postrema est
microspora (Ip. 32-36 = 15-16)

Neopora media Niesl. — In foliis imis putridis. Nata verna
in Malaske Harrington 1871-72. Est forma peritheciis latioribus
 $126-28 \pm 13-14$ / at var Limorum Penz.

Neopora pentamera Karst. — In foliis caliginosae Dipsacaceae
Fischer. Walden Hl. Herb Thiel. Sporula plurimicula 5-septata.

Neopora infecta Fuck. — In caliginosae Poa ^{emarginata} corr. ? Nagari T.
Harrington 1871-72.

Tyrenophora physciformis (Niesl.) Sau. — In petiolis stipitatisque
emortuis Degeneridij Kukuk Bay (1552 a)

Tyrenophora comata (Niesl.) Sau. — In foliis ^{caliginosae}; emortuis Arena
viae vernae et A. macrocarpa Port Clarence (1953 a) et
St Paul H. Macom 1891

Tyrenophora polyphagia Sau. et Scal. sp. nov. — Peritheciis sparsis, puncti-
formibus, nigris, globulis, $190-220 \mu$ diam., letis rigidis, fusis, septatis,
 $160-190 \pm 7.5$, vertice rotundis; contexta parenchymatica, fuliginea, ex aere cylindra-
ceis, rectis curvatis, apice rotundatis, breviter oblique stipitatis, octo-
sporis; peritheciis distichis, oblongo-fusoides, utriusque obtusulis, inter 3-septatis,
deni sub-7-septatis, metulis, tandem q-12-septatis, murabis-dispsis, medio
ex 0- non constrictis, $36-58 \pm 18$, fuliginea.

Hab. in caliginosae foliisque putridis Polygonum humile, Popoff Hl. Harring-
ton 1871-72 - affinis P. phaeosporae et P. polyphagiae sed nte distinda

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Sphaeropeltidae

+ Phyllotricha helleboricola C. Mass. - var Copridij Sacc. et Scal. A type diff. spomlis angustioribus, nempe ^{recte} cylindricis, attingue subincurvatis, rotundatis 5 = 0,5. - In foliis Copridij trifoliatae, Alaska, Harrington 1891-92 (x 126)

+ Phyllotricha carnicola Sacc. et Sc. sp. nov. - Maculae arecentibus, in determinatis, plurimis hypophyllis; peritheia multiformis, atque, globos. depositis, 50-80 μ diam., poro pertubis, laxissime seriatim dispositis; contexta fusa e aliatis polyhedris 6-8 μ diam. compatis; spomlis oblongo-baccularibus 6-5 = 0,5; basidiis missis. Hab. in foliis Carex sp. Ova Alaska (N. 628) - a Ph. carnicis diff. deposita macula fusa et peritheia seriatim.

+ Phoma olivacea Sacc. - In caulis emortuis Cardaminace bellidifoliae St. Paul Isl. Macoun.

+ Phoma complanata (Tode) Desm. In caule emortuo Heracleum St. Paul Island (738)

Rhynchophoma raduloides Sacc. et Scal. - Peritheciis gregariis et belli. ^{parum incrassata} ianata erumpentibus longe coronatis, ^{rectis,} ^{longi, praelibati} sursum tenuatis, aker- nis, et 1,5 mm. altis, 200 μ cr., apice pertubis globuligine spom- lorum pallide rosulatis coronatis; spomlis oblongis, attingue rotundatis 7-9 = 2,5-3. Unisepales non constrictae, hyalini; basi ^{dig. fasciculatis} ^{baccularibus} ^{ampliatus} v. ^{bulbatus} 20-30 = 2, hyalini; basi ^{dig. fasciculatis} ^{baccularibus} Ribig. taxifoliae Sitke, loca Godronia Arctoia (708 et 709). Affinis R. Radula probet spomlis 12-15 = 4-5.

+ Hagonospora Peltariae Vestergr. - In caulis emortuis Memor Kukak Bay et Kastak Isl. (sic numeris!). Probabiliter est forme Mem. Anemone Bat.

Hagonospora telecharioides Trail. var S. caricina Sacc. et Scal. A type diff. spomlis paullo brevioribus, attingue rotundatis, rarius acutiusculis, 27-34 = 6,5-7,5, omnino hyalini. In foliis emortuis Carex festucacea var.) Peritheciis 90-120 μ diam.; basidiis subnudis, spomliis ^{5-6-septatae, ad} septa non constrictae (Yakutat Bay, 1892, Houston)

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Stagonospora aquatica Sacc. * *S. lugubris* Sacc. et Sc. nov. subsp.
Peritheia hinc inde gregaris, punctiformibus, globosis, 180-160 μ
Diam., poro pertubis, atque, subtubulis, contexta parenchymatis
fusco; spomis oblongo-teretisculis, utrinque rotundatis, rorius aenescens
hj et 10pe basi truncatis, 3-septatis, non constictis, 23-28²
 \approx 3,5-4, e chloris hyalinis.

Hab. in foliis Luzulae arcuatae R. Barrow Mindooi 1883

A typo recente spomis parvo angustioribus, qua nota ad ejus var.
lacustrem acred. t.

Stagonospora graminum Sacc. et Scal. sp. nov. — Peritheia laxe
gregariis, subtubulis, e globoso horizontaliter oblongis, atque,
poro pertubis, 275-380 = 160-200; contexta parenchymatis casta
neo-fusco; spomis oblongis, 10pe inaequilateris, 23-28 = 6,5-8,
utrinque hemato-oblatis, 5-7-septatis, non constictis, e chloris
hyalinis.

Hab. in foliis emortuis Airae atropurpureae Flinley, Harrington
1871-72 — Affinis S. subseriatae (Desm.) Sacc. et praeclime
ejus var. Moliniae Trail, sed spomis 5-septatis (huc 6-5-septatis)
et peritheia oblonga.

Septoria Rubi — in foliis nonnam emortuis Rub. sp.
(Cape Fox 1851)

Septoria canadensis Peck — in foliis longidis Corni canadensis
Tilke (726) Yakutat Bay (725), Virgin Bay (726).

Septoria Dearnellii Pitt. et Everh. — in foliis adhuc viis Angelica
sp.? — Virgin Bay (759), Yakutat (760) — Differt paululum spomis
10pe aliquantibus longioribus.

Septoria Cebroselini Desm. * *S. Treleaseana* Sacc. et Sc. ^{subsp. nov.} Maculis
minutis, amphigenis, angulis, 1-1,5 mm. lat., die ahookumis; peri-
theia sparsis, punctiformibus, hypophyllis; spomis pliformibus, 40-60 = 0,5,
continuis non v. iaduante, globulatis, hyalinis.

Hab. in foliis adhuc viis Cebroselini? Linenii? Virgin Bay (758)
A typo maculis et spomis longioribus et tenacioribus sat differt.

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+ Ramularia Heraclei (Oud.) Sacc. - λ foliis Heraclei,
 Cape Forc (757)

+ Ramularia equinovae Cz. - λ foliis Ranunculi sp. e grege R.
montana, Chalaska (743), Long Island (744)

+ Ramularia pratinicis Sacc. - λ foliis Rumicis occidentalis,
 Yakutat (777) Popoff M. (775) Stacia Bay (743, cont'd.)
 Virgin Bay (772)

+ Ramularia Parneticis Dk. et Ev. - λ foliis Aruncus Chamissonis
 Kedak Klyoz 1867 - Specimen mancum, dubium.

+ Cercospora Apii Tres. var. Selini Gmelini Sacc. et C. Hyphes
 $36-42 \times 5-8$, pseudodisc, apic. ^{center} tortuoso-tortuoso; conidi. bacilla-
 ri-oblavata, 1-3-leptata, $52-70 \times 6.5-7$, hyalines. In
 eisdem foliis Cape Phipps Fumotov 1872 - Var. Angelicae
 Hyphes brevioribus, superne oblate tortuosa 20×4 , demum fasciata;
 conidi. bacillari-oblavata, usque $80-90 \times 3.5-5$, oblate leptata,
 hyalines. In foliis Angelicae sp.? St. Paul M. (761) Ab hac
 var. forse non diff. Cerc. Polystachiae Dk. et Ev.

+ Speira effusa (Peck) Sacc. λ ramis coticulatis Coryli? Agne
 Dulce Kly. (6846) rora Leptothrix anisomela.

+ Mnioraea brachyspora Sacc. et Scl. sp. n. - sporodochia sparsis,
 erumpentibus, carnos-crenatis, pulvinatis, 1-1.5 mm. diam.,
 carnis v. fulvella; hyphes pliformibus, inaequibus, flexuosis,
 laxe fasciculatis, 2 μ cr., continuis, minute guttulatis, non
 v. ex ramulis, intermixtis crepidoibus berinibus, 4 μ cr.; coni-
 dii anguste falcatis, oblique acutatis, $30-40 \times 3$, guttu-
 latis v. punice leptata, hyalines.

Hab. in cortice arboris indat. loca Neetra sanguinea, New
 Metlakatla (6857)



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(Invenenda pag 1040)

Limacinia? alaskensis Sacc. et Sc. sp. nov. - Effusa, super-
ficialis, densa, opaca atra, subpannosa, 2-6 cm. longa, $1\frac{1}{2}$ - $3\frac{1}{2}$
mm. cr. ; hyphis mycelii horizonteis, plerumque transversali-
bus v. furcatis, 400-500=16-18, crebre septatis, ad septa
contingentes, articulis globo-cuboides 15-20=13-15, subinde
latioribus quam ~~longis~~ longis, fuliginosis, plerumque parietali-
guttatis ; conidiis oblongo-fusoides, 28-30=10, 3-septatis, vix
contingentes fuliginosus ; peritheciis in mycelio gregariis et subdensi-
tatis globo-cuboidis, obtusis v. deflexis, 180-200 μ lat., hyphis
continuibus laxe versatis ; ascis (immaturis) elevatis, 90-120
= 15-18, aporaphysatis, subsessilibus ; spordis.....

Hab. in cortice adtra. vixio Alni sp. Glacier Bay (712) -
Mycelium foliis solit Hormisia v. Antennariae formam; foliis
Hormisia alto Ehrenb. accedit.



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Explicatio Tab. I-II

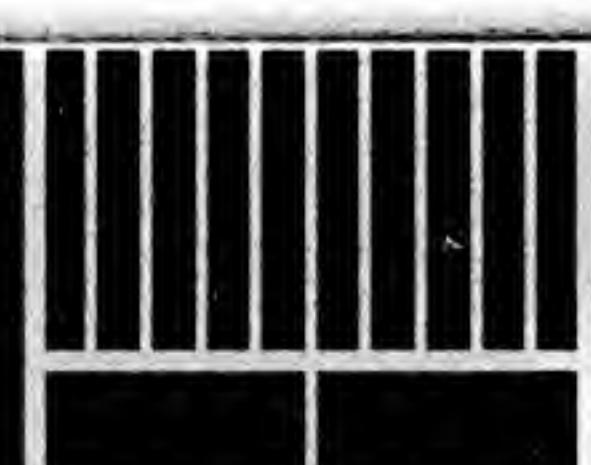
frustulae
filiæ

Tab. I.

1. Microthyrium Harrimani Sacc. - a. fung. 5^{ies} auctus - b. peritheia duo binata - c. contextus perith. - d. ascus - e. sporidia.
2. Phiala carneola Sacc. - a. fung. 5^{ies} auct. - b. capulae varia aestate - c. ascus - d. sporidia.
3. Helotium Alaskae Sacc. - a. fung. 5^{ies} auct. - b. ascoma lectum - c. ascus - d. sporidia -
4. Pirottaea Yakutatiana Sacc. - a. fung. 4^{ter} auct. - b. ascocarpha magis aucta - c. pili fimbriati - d. setula - e. ascus - f. sporidia.
5. Trichopeziza caroleae (B. et Br.) Sacc. - a. fung. 4^{ter} auct. - b. seta - c. ascus et sporidia.
6. Patinella Aloysii-Sabaudiae Sacc. - a. fung. magn. nat. - b. capulae 5^{ies} auctae - d. pili ^{seu cellulariae} marginales solutae - e. ascus et paraphys. - f. conidia - g. sporidia.

Tab. II.

7. Scleroderris Treleasei Sacc. - a. fung. magn. nat. - b. ascocarpha 5^{ies} aucta - c. ascoma juvenile lectum - d. ascoma adultum lectum - e. ascus - f. ascus apex - g. sporidia.
8. Ramularia punchiformis Sacc. - a. fung. 5^{ies} auctus - b. cospituli hyphae - c. conidia.
9. Antennaria rectangularis Sacc. - a. hyphae parum auctae - b. hyphae fragmentum valde auct.
10. Fusarium illosporioides Sacc. - a. fung. ter auct. - b. hyphae sporophorae variae - c. conidia varia aestate.
11. Tremella? phyllachoroides Sacc. - a. fungus auct. lectus - b. hyphae.



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~~Upharella leptocephala~~ Upharella leptocephala grayi M. & S. spicata mentalis

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—b.

George



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Explanatio iconum.

Table I

Leskeolov.
Pl. 3-5

5

1. Limacina? alaskensis S. et Sc. - a. fung. magn. nat. - b. c. hyphae - d. conidium - e. perithecia aucta - f. asci immaturi.
2. Hypoxyton ohioense Ell. et Ev. - a. fung. lect. magn. nat. - b. arcus - c. sporidia.
3. Laetaria taxiphaga S. et Sc. - a. fung. magn. nat. - b. perith. lect. c. asci - d. sporidia.
4. Phytolopora borealis S. et Sc. - a. fung. magn. nat. - b. perith. aucta - c. arcus - d. sporidia.
5. Spharella ^{graminum} S. et Sc. - a. fung. magn. nat. - b. perith. auct. - c. asci - d. sporidia.
6. Spharella Grossulariae * S. salicella S. et Sc. - a. fung. m. n. - b. perith. auct. - c. arcus - d. sporidia. (In folio, adest quoque Rhytisma salicinum)
7. Spharella leptospora S. et Sc. - a. fung. m. n. - b. perith. auct. - c. asci - d. sporidia.
8. Venturia Kunzei * V. ramicola S. et Sc. - a. fung. m. n. - b. perith. auct. - c. sedula peritheciu - d. arcus - e. sporidia.
9. Dyomyphoria arenaria * D. macrospora S. et Sc. - a. fung. m. n. - b. perith. auctum - c. arcus - d. sporidia.

Tab. II.

10. Napothecia (Choristote) anisomera S. et Sc. - a. fung. m. n. - b. acervulus 10 days horz. - c. idem sect. vertic. - d. arcus - e. sporidia.
11. Leptorphaea agnita * L. labens S. et Sc. - a. fung. m. n. - b. perith. sectum - c. arcus - d. sporidia.
12. Leptorphaea foeniculacea * L. lupina S. et Sc. - a. fung. m. n. - b. perith. sect. - c. arcus - d. sporidia.
13. Pyrenopeltis polyphagmoides S. et Sc. - a. fung. m. n. - b. perith. auct. - c. setula peritheciu - d. arcus - e. sporidium.
14. Pseudotarsa ribesia S. et Sc. - a. fung. m. n. - b. acerv. sect. - c. arcus - d. sporidia.
15. Phyllocladus filicina S. et Sc. - a. fung. m. n. - b. stroma sect. - c. local. setulae, auctus - d. arcus - e. sporidia.
16. Fabrea cincta S. et Sc. - a. fung. m. n. - b. acerv. lectum - c. asci - d. sporidia.
17. Rhynchophoma raduloides S. et Sc. - a. fung. m. n. - b. perithecia - c. contextus parenchym. perith. - d. setulae - e. sporulae.

Tab. III

18. Phylloctete carnicola S. et Sc. - a. fung. m. n. - b. perith. lect - c. sporulae
19. Phylloctete helboricola * Ph. Coptidis S. et Sc. - a. fung. m. n. - b. perithecia sect. - c. sporulae.



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20. Stagonospora aquatica * S. lugubris P. & H. Sc. - a fung. m. n. - b. peritheciun
sectum - c. spomiae

21 Stagonospora Hebocharidis * S. caricae S. & H. Sc. - a fung. m. n. - b. perith.
sectum - c. spomiae.

22 Stagonospora graminum S. & H. Sc. - a fung. m. n. - b. perith. sectum
c. spomiae

23. Septoria Petroselinii * S. Treleaseana S. & H. Sc. - a fung. m. n. - b. peri
thecia secta - c. spomiae.

24. Septoria eriophorella S. & H. Sc. - a fung. m. n. - b. perith. sect. - c. spomiae

25. Septoria Chamissonis S. & H. Sc. - a fung. m. n. - b. perith. sectum - c. spomiae.

26. Rhabdospora campylospora S. & H. Sc. - a fung. m. n. - b. perith. sectum -
c. spomiae -

27. Sphaerographium abditum S. & H. Sc. - a fung. m. n. - b. perithecia anata -
c. spomiae

28. Microcoleus brachyspora S. & H. Sc. - a fung. m. n. - b. sporodochium
anatum sectum - c. hyphae variae - d. condia



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Septoria syrphi Sacc. — In foliis *Agrostis exaratae* J. & R. Bay, Howell (II 1710) et *Agrost. geminatae*, Nagi, St. Harrington 18/11-72 — Sporulae variant, in prima $75-90 = 1-1,2$, in altera $60 = 1$.

Septoria Chamissoi Sacc. et Scal. sp. n. — Maculae nullis v. obsoletis, peritheici minutissimis, atro, gregaris, canalo-promiscis, 65-70 μ diam., globulosi, poro perithecii; contexta membranaceo, tenui, parenchymatico, fasciato; sporulis cylindraceis atro-angue rotundatis, 3-septatis, equitulatis, hyalini, $66-52 = 3,5-4$.

Hab. in foliis *Eriophor. Chamissoi*, Pt. Barrow Murdoch affinis *Sept. Scirpi* Sacc.; a sequente differt peritheiciis multo minoribus, sporulis brevioribus et crassioribus.

Septoria eriophoella Sacc. et Scal. sp. n. — Maculae nullis; peritheicii sparsi, globulosi, 275 μ diam., profunde immersi, epidermide non atrata tecti, poro perithecii; contexta parenchymatico e cellulis diffinis, minutis, fuligineis composita; sporulis cylindraceo-filiformibus $70-90 = 2,5-3$, minime guttulatis, obsoleto-septatis, hyalini.

Hab. in foliis *Eriophor. Chamissoi*, Pt. Barrow Murdoch; can procedere — A *Sept. Eriophor.* differt praeceps peritheiciis quadruplicatim majoribus.

Rhabdopora campylopora Sacc. et Sc. sp. n. — Peritheicii sparsi, subcutaneo-erumpentes, minutis, ^{aberrantibus} nitidis, depresso globulosi, 200 μ diam.; contexta parenchymatico, fuligineo; sporulis bacillari-fasciatis, falcatis, raro reticulatis, atro-angue acutatis, ^{tenue} 3-septatis, 30-40 = 1-2, minime guttulatis, hyalini.

Hab. in caulinis emarginatis *Anemone narcissiflora* in cæcum in montrum super Yr Bay Alaska, Thos Howell (11601) — Non nullis notis ad *Stagonospor. Pulsatillæ* sed sporulae obsoletus, septatae, multo angustior et acutior.

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Sphaerographium abdum Sacc. et Sc. sp. nov. - Cephalis sparsa,
mox superficialis, globo-conica, caput longissimum rotundatum,
arc. 500 μ diam., nigra, ^{semidepressa}, contexta parenchymatica foliginea;
sporangii filiformibus, rectis, raro subcurvatis, $50-72 \pm 1-1.5$,
continuis, globuletis, hyalinae.

Hab in interiore caulis emortuorum Heraclei sp. Kodak (778)
socii Leptothrix Diod.

Leptothrix vulgaris (Fr.) Sacc. - In rami Rub. Thall.,
Yakutat Bay near the Mission (79) - Forma Parryae: spo-
nulis reduplicatis. In squamis ad basim caulis Parryae macrocarpae
Shumagin I. Harrington 1871-72.

Leptothrix clypeophorians Sacc. - In rami emortuorum Rub. Chama-
moni Unalaska Harrington 71-72 - Forma Thonei Rubrum West.
huc spectat

Hypocreales

Glomerularia Coriaria Beck. - In foliis nondum emortuis Coriaria
canadensis Sacc. (72) - Hyphae manifestae 1-2-septatae, usque 50
 μ longae

Podaxonema alpestre Cz. - In foliis Polygoni vivipari Glacier 1.
(762) et Yakutat (763)

Orbularia fuliginea (Tuck.) Sacc. - In foliis vivis Polygoni ^{Sanguisorba}
Kodak (7361), Popoff Isl. (755) Unalaska (754) Kodak (752) ^{et 753}
Maculae arecenti ochraceae, orbiculari-angulose, atri-purpureo-cinetae,
in pag. inf. ruborei; capitula hypophylloides, greci, punctiformes; hyphae
percurrentes bas. in stroma dilute chlorinum fulloformis coaditae,
 $70-100 \pm 3.5-6$, subhyalinae, oblate septatae usque ^{litter} fornicatae-
dentatae; conidiæ obovatae, continue, $16-22 \pm 10-13$, granulosa-farcta,
hyalinae.

Ramularia macrospora Fres. - In foliis Campanula lunifolia
Alaska, Fisher, 1880.



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Dothideaceae

✓ Phyllachora fibicina Sau. et Scl. sp. nov. — Stromatibus epiphyllis, maculiformibus, atro, appplanatis, parum emergentibus, amictis e granulis angulatis, superficie rugulis, contextus atro-brunneus, parenchymatosis; loculis numerosis, immensis, globosis, 70-80 μ diam. pallidioribus; asci testiclavatis, brevithime stipitatis, 70-10-11, 5, apice rotundatis, oitospori; spores elliptico-oblongi, unguis non fundatis, recti, 14-15 = 5-6, continuos, hyalini, inter granuloso farcti.

Hab. in foliis nonnumquam emortuis Aspidii Lonicerae, Alaska, Eversmann 6. 1892. Patchella species, omnino distincta

✓ Phyllachora? Heraclei (Fr.) Fuck. In foliis adhaerens Heraclei laevi. Hugé 7. Harrington 1871-92. More solida sterili.

✓ Dothidella betulina (Fr.) Sacc. — In foliis Betula glandulosa Port Clarence Alaska (699), locis sphaerulata hortensis.

(Dothidella betulina (Fr.) Sacc. * D. yakutiana Sau. et Sc. subsp. nov. Stromatibus innato-erumpentibus ^{nutrinatis}, appplanatis, subhirticollis punctulatis, atro, loculis immensis, globosis, 50 μ diam., orbe pertusis; asci oblongo-cylindracei, apice rotundatis, deorsum nonnumquam microcavatis, subbasilibus, 40-48 = 10-12, oitospori; spores subdichisi v. polystichis obovato-cuneatis, apice rotundatis, base acutatis, 1-leptatis, non contractis, equitatis, 10-12 = 3-6, echlorios hyalini) Hab. in foliis emortuis arboris ignota, Yakutat Bay (703)

Hypocreaceae

✓ Nectria sanguinea (Berk.) Fr. — In corticibus emortuis, Metlakatla (685) locis Microseris brachypoda.

✓ Nectria epiphyllia (Tod.) Fr. — In Stromatibus Sphaeropodacear cuiusdam obsoletae ad ramos alni?, Sitka (683)

✓ Cordyceps militaris (Linn.) Link. — In larva insecti cuiusdam, Oice (695) — Specimen immaturum, sed videtur hujus speciei.



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Hysteriales

✓ Sophodermium Dayeocci (Fr.) Karst. - $\text{z. foliis} \text{ mercentibus}$
Vaccini Dayeocci, Kadrik (713) - Specimina immatura.

✓ Sophodermium maculare (Fr.) De Not. - $\text{z. foliis} \text{ Laticis sp.}$
Glacier Bay (693)

Discomycetace

✓ Trichopeziza relicina (Fr.) Fuck. - $\text{z. caulis} \text{ putridi} \text{ herbarum}$
majorum Agne Dulce River (732)

✓ Godronia Urcuolus (A. S.) Sau. - $\text{z. rami} \text{ emortuis} \text{ Rizig,}$
Litke (708) loc. Rhynchophorus radulae ^{v. irregularibus}

✓ Tubera cinerea Sau. et Scat. sp. nov. - Maculis subbimaculibus,
1-2 mm. lat., raro latibus, in hypophyllo subumbinis, in epiphyll
et palliatis annulagine atro-purpureo cinetis; ascomatibus ^{epiphyllis} ^{immuno-clavatis} clavatis, depensis, 300-400 μ diam., sparsis v. confluentibus, fascis,
disco madore aperto, vir pallidior; arcis tereti-clavatis, apice rotunda
hi jodo caeruleo-viridis, breve stipitatis, 70-90 \times 18-20, ^{ochropigia} ^{paraphysibus} ^{tim-}
placibus ^{parce} v. ramosis, filiformibus apice capitatis; sporis ^{utrinque oblongis} ^{ovato-oblongis},
distratis v. oblique monostichis, 15-20 \times 5-6,5, primo constrictis, deinde
at plurimum ^{non constrictis} loculo supero quam infero per dylo majore,
pyriformis, guttulato-farctis.

Hab. in foliis subviris Rub. sp., Yakutat Bay (750) et Dca
(743)

✓ Phaeosoma diminuens Karst. $\text{z. foliis} \text{ languidis} \text{ v. emortuis} \text{ Parvus}$
caneanthis Yes Bay, Howell 11709

✓ Rhytisma? Rhododendri Fr. - $\text{z. foliis} \text{ Rhododendri Kamtschatcici}$,
Maleske, Macom II 92 - ~~deb~~ Forte hinc pertinet forma hoc
sperryonica: stromatis amphigenis maculiformibus, ^{atris} ^{atrinatis}, intus ^{pallidioribus} ^{fuligineis}
selectis; porulis ellipsoideis minutis, 2,5-3 \times 0,5, hyalini, basidiis
filiformibus usque 26 \times 0,5, fasciatis suffulky.

✓ Heteropeltaria Tabella (Tode) Spreng. - $\text{z. caulis} \text{ emortuis} \text{ Heraclei}$ y.
Agne Dulce River (736), Alaska Evans 1897 (1164)



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Sphaerella gregaria ^{gregaria} punctiformis 100-130 μ diam.; asci brevirostris, 52-70 \times 13-15, 5 \times 5, brevirostris stipitate, octosporus; spores polythecis fusoides. *Sphaerella recta* ^{recta} \times 32-34 \times 1, 5-2, 5, uniseptate, non constrictis, hyalini. Hab. in foliis *Salicis* sp., loca *Rhytidoma salicis*, Kadiak Isl. (n. 698)

Sphaerella Alni-variis De Not. - In foliis *Alni* ^{var.}, Part. Neth (910, 710^a) locis *Dymorphorus nana* et *Scutellaria tubiformis*.

Sphaerella californica Cooke et al. - In foliis *Aegopodium* Month of Sp. Bay Howell (1711) locis *Leptophyllum Leptophyllum*.

Sphaerella ignobilis Awd. - In foliis *Aegopodium* ^{ovato-oblance} ^{30-34 \times 9-10.} germinatae Nag. Harrington 1871-72. Spores 9-10 = 3-7, 5, non exakte cuneata, asci paucis brevirostris.

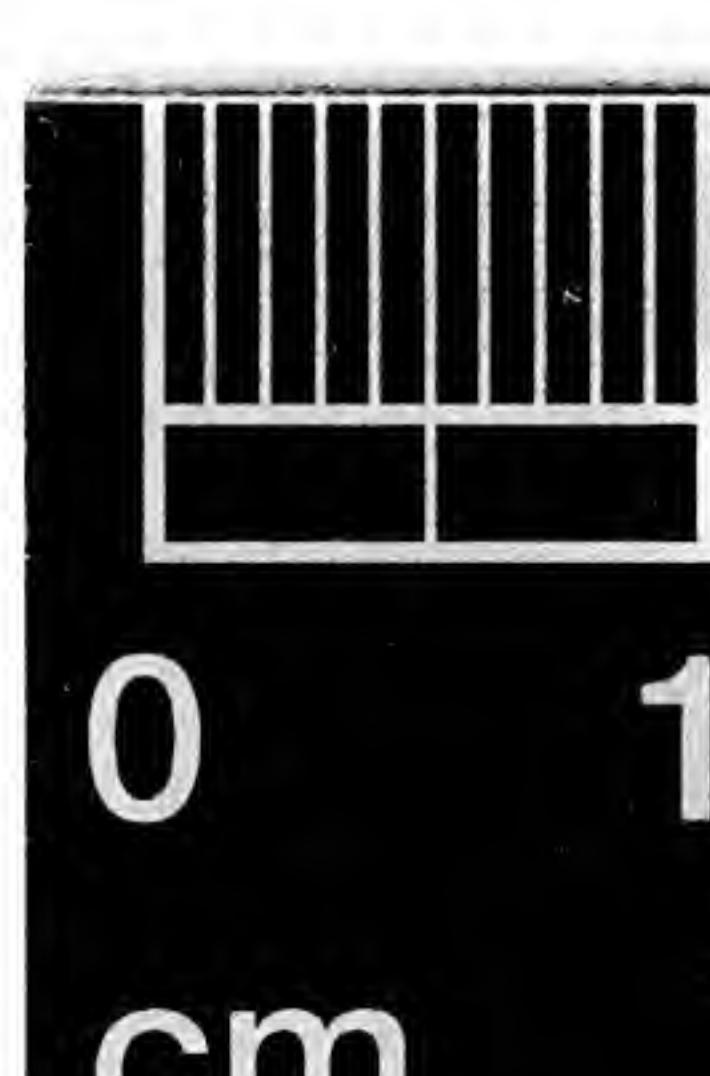
Sphaerella graminum Sacc. et Sc. sp. n. - Peritheia sparsis, punctiformibus, globulosis, 150-200 μ diam., inuncto-punctatis, epidermis de non atrata tecta, brevirostris papillato-pustulatis, contexta membranaceo-fuliginea, parenchymatica; asci cylindracei, subcylindrici, apice rotundatis, 65-70 \times 10-12, rectangularis, 8-spores; spores distichis elliptico-fusoides ^{recta} \times 13-16, 5 \times 3, 5-4, uniseptate non constrictis, plasmate granuloso v. minute guttulato fasciatis, hyalini.

Hab. in foliis ericacearum. *Poa stenanthae* Schumagin & Herring 1871-72. Affinis *Sph. Cruci-galli*, praeceps distinguenda peritheia majoribus ratione fructificatione.

Sphaerella Wichuriana Schröt. - In foliis *Cariaj* sp. Shore of Yes Bay, Howell (1696)

Sphaerella leptospora Sacc. et Scal. - Peritheia sparsis, globulosis, primo immersis, deinceps liberis, 220-275 μ diam., poropercatis, contexta parenchymatica, fuliginea; asci cylindracei, recti v. curvatis, brevirostris stipitatis, 50-60 \times 7, 5-9; spores octosporus, distichis, fusiformibus, medio 1-septatis, non constrictis, 13-15, 5 \times 25-3, hyalini, raro guttulatis.

Hab. in foliis *Cariaj* *Markeniana* Yes Bay Howell (1693) - Affinis *Sph. perexigua* sed peritheia multo ampliora, asci longiores et angustiores.



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Tepharella eliophila Rost. — \mathcal{L} foliis emortuis Artemisia
glomeratae Savy St. Laurentii Exped. Sitz. — A type differt
(an ab estate!) area spordigae paullo angustioribus.

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ARCHIVES 19

Veronica circinans (Fr.) Sau. — \mathcal{L} foliis vivis Gerani eriantha
Virginia Bay (746) — Specimine immatura.

Veronica Kungei Sau. — Cotyledon Chatomium — \mathcal{L} foliis
Rubi-spec. circa William Sound et Yekutat Bay (748, 749)
— Var. ramicola Sau. et Sc. A type differt per theis rami-
olis in crista stomatica (propria?) nanehibus. \mathcal{L} rami, Rubi-
stellati. Usherska, Harrington 1871-72

Diapothoe (Chorostate) Sommella (Fr.) Fuck. — In rami Rubi lexiflor, Sitka
(709). — Forma oligocarpa.

Diapothoe (Chorostate) anisomera Sau. et Sc. sp. n. — Stromata
gregaria, cotholos, erumpentes ^{ambitu} suborbicularibus ^{convexis} 1,3-1,5 mm. diam., intus
ligueo-pallidij; peritheia 10-20, globosis v. mutua pressione; irregularibus,
200-250 ^{mm.} diam., monothecis, ostiolis breue cylindricis, parum emarginatis
apice rotundatis; axis fusco-clavatus, apice ^{obtusus} ~~acute~~, securum tenuatus,
80-90 = 11-13, obovatus ^{non contractus} spordis distichis, obovatus, 14-15 = 5-5,5,
intra medium septatis farctis, hyaliniis et in theca strato mucoso inaequali
obductis, articulo superiore fere duplo majore.
Hab. in rami cothecis suborbicularibus Corylus? Aque Dulce River (686)
Ost. matrice non certa species videtur distinguenda ob spordia
extimie anisomera.

Diapothoe (Tetrasporae) pungens Mitt. — \mathcal{L} rami Rubi sp. 1. — Rubia
Rhynchophoma, Sitka (728^a). — Forma ostiolis brevius exserta.

Didymophora nana Rost. — \mathcal{L} foliis Artemisia ^{maculata} viridis
Port Wally (90^a) A type differt spordis paullo brevioribus, ramis
18-20 = 6,5-7,5, nec 25 = 7-8.

Didymophora arenaria Mont. — *D. manzanita* Sau. et Sc. subg. nov. Spordis 40 = 13,5, nec
30 = 16 ² calvis Aeon capitatae, var. trifoliae, Shunqin H. Harrington 1871-72

Mastaria Dyadis Rost. — \mathcal{L} foliis Dyadis octopetala var.
integifoliae Bi. Danow Mardale 1883. — Specimen non omnino
maturum.

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Aleuria Fruji

Determined by
Macbride

#1 = (1+5 refs.)

Tubular

Peck

Spec.

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Det. by Dangard.

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Archives 19

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